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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,762	03/22/2004	Duk San Kim	E4107-00023 (2007)	2436
8933	7590	12/18/2007		
DUANE MORRIS, LLP IP DEPARTMENT 30 SOUTH 17TH STREET PHILADELPHIA, PA 19103-4196			EXAMINER WENDELL, ANDREW	
			ART UNIT 2618	PAPER NUMBER
			MAIL DATE 12/18/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

**Office Action Summary**

Application No.

10/806,762

Applicant(s)

KIM ET AL.

Examiner

Andrew Wendell

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 17 September 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-10 and 14-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 and 14-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/17/2007 has been entered.

### ***Claim Rejections - 35 USC § 102***

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-8, 10, 14-19, and 21-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Gorsuch (US Pat# 6,526,034).

Regarding claim 1, Gorsuch teaches a wireless gateway 101 (Fig. 6), comprising a local network interface using local network interface protocol 230 and 240 (Fig. 6 and Col. 9 line 29-Col. 10 line 64); a wireless interface 130 and 140 (Fig. 6 and Col. 9 line 29-Col. 10 line 64) providing access to a plurality of network services 140 and 240 (Fig. 6), each of the plurality of network services using different public network interface protocol 140 and 240 (Fig. 6); a controller connected to the local network interface and to the wireless interface, the controller configured for monitoring a plurality of network services accessible to the gateway through the wireless interface and tracking network

services that are available (Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64); and one or more service interfaces connected to the local network interface and to the wireless interface (Fig. 6 and Col. 9 line 29-Col. 10 line 64); wherein each service interface provides automatic data conversion between the local network interface protocol and a public network interface protocol associated with the plurality of network services (Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64).

Regarding claim 2, Gorsuch teaches the controller selects one service interface for communication between the local network interface and the wireless interface, and the selected service interface provides data conversion between the local network interface and wireless interface (Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64).

Regarding claim 3, Gorsuch teaches the selected service interface provides transcoding of data between the first service and the second service (Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64).

Regarding claim 4, Gorsuch teaches the selected service interface provides protocol conversion between the first service and the second service (Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64).

Regarding claim 5, Gorsuch teaches wherein the controller provides routing of data between the local network interface and the wireless interface (Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64).

Regarding claim 6, Gorsuch teaches wherein the local network interface supports an Ethernet connection (Col. 9 lines 29-52).

Regarding claim 7, Gorsuch teaches wherein the wireless interface supports a CDMA connection 130 and 140 (Fig. 6).

Regarding claim 8, Gorsuch teaches wherein the wireless interface supports a Wi-Fi connection 207, 230, and 240 (Fig. 6).

Regarding claim 10, method claim 10 is rejected for the same reasons as system claim 21 since the recited elements would perform the claimed steps.

Regarding claim 14, Gorsuch teaches the appropriate service interface is selected from a plurality of service interfaces provided in the gateway (Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64, i.e. CDMA and 802.11).

Regarding claim 15, Gorsuch teaches wherein: the first interface is a LAN interface supporting a LAN connection 230 and 240 (Fig. 6).

Regarding claim 16, Gorsuch teaches wherein the LAN interface supports an Ethernet connection (Col. 9 lines 29-52).

Regarding claim 17, Gorsuch teaches wherein the second interface is a wireless interface supporting a wireless connection 130 and 140 (Fig. 6).

Regarding claim 18, Gorsuch teaches wherein the wireless interface supports a CDMA connection 130 and 140 (Fig. 6).

Regarding claim 19, Gorsuch teaches wherein the wireless interface supports a Wi-Fi connection 230 and 240 (Fig. 6).

Regarding claim 21, Gorsuch teaches means for monitoring a plurality of network services 140 and 240 (Fig. 6) accessible to the gateway 101 (Fig. 6) through a wireless interface and tracking network services that are available (Col. 2 line 55-Col. 3 line 65

and Col. 9 line 29-Col. 10 line 64); means for receiving a session request to open a network session from a client through a first interface (140 or 240 of Fig. 6) of the gateway using a first interface communication protocol (i.e. at office), wherein the session request indicates a communication service (Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64); means for determining the particular communication service indicated by the session request (based on signal strength, services responding to scanning probes, etc. to which service to request connection, Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64); means for selecting a network service that matches is available among the plurality of network services (CDMA or WLAN, Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64); means for sending a service request to a service provider of the selected network service through a second interface (140 or 240 of Fig. 6) of the gateway using a second interface communication protocol (140 or 240 of Fig. 6), requesting initiation of the network service (again based on signal strength, services responding to scanning probes, etc. to which service to request connection Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64); and a service interface corresponding to the selected network service and providing automatic data conversion to match the communication protocols of the first and second interfaces (Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64).

Regarding claim 22, Gorsuch teaches means for establishing a connection for communication between the first interface 230 and 240 (Fig. 6) and the second interface

130 and 140 (Fig. 6); and means for sending data across the established connection (Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64).

Regarding claim 23, Gorsuch teaches means for transcoding data to be sent through the connection using the service interface (Col. 2 line 55-Col. 3 line 65 and Col. 9 line 29-Col. 10 line 64).

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 9 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gorsuch (US Pat# 6,526,034) in view of Lee et al. (2002/0181416).

Regarding claim 9, Gorsuch teaches the limitations in claim 1. Gorsuch fails to teach a Bluetooth connection.

Lee teaches wherein the wireless interface supports a Bluetooth connection (Section 0005 and 0016-0017).

Therefore, it would have been obvious at the time of the invention to one of ordinary skill in the art at the time the invention was made to incorporate a Bluetooth connection as taught by Lee into Gorsuch's dual mode subscriber unit for short range, high rate and long range, lower rate data communications in order to provide an improved network system capable of sending and receiving various wireless network signals (Section 0009).

Regarding claim 20, Lee further teaches wherein the wireless interface supports a Bluetooth connection (Section 0005 and 0016-0017).

***Response to Arguments***

3. Applicant's arguments with respect to claims 1-10 and 14-23 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Wendell whose telephone number is 571-272-0557. The examiner can normally be reached on 7:30-5 M-F.

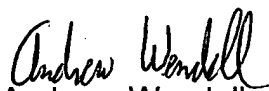
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



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Andrew Wendell  
Examiner  
Art Unit 2618

12/11/2007

  
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SUPERVISORY PATENT EXAMINER